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From the INTERNATIONAL PRELIMINARY EX	CAMINING AUTHORITY		
To: JAE-HEE CHOI QUALCOMM INCORPORATED 5775 MOREHOUSE DRIVE			PCT
SAN DIEGO, CA 92121	CONTRACTOR OF THE CONTRACTOR O		WRITTEN OPINION
			(PCT Rule 66)
		Date of Mailing (day/month/year)	16 JUL 2
Applicant's or agent's file reference		REPLY DUE	within 2 months/days from
020453WO <			the above date of mailing
International application No.	International filing date	(day/month/year) .	Priority date (day/month/)
PCT/US03/36083	07 November 2003 (07.	11.2003)	08 November 2002 (08.11
International Patent Classification (IPC	or both national classificat	tion and IPC	นางรับอากุลเนองออกเกราะนักรายเกราะนางการกายเกราะนางการของเน
IPC(7): H04Q 7/20 and US Cl.: 455/45	56.1, 456.3, 456.5, 456.6, ₁	404.2, 11.1; 370/31	5
Applicant	***************************************		
QUALCOM INCORPORATED			

1. This written opinion is the f	irst (first, etc.) drawn by t	this International Pro	eliminary Examining Author
2. This opinion contains indica	tions relating to the followi	ng items:	

ths/days from e of mailing e (day/month/year) er 2002 (08.11.2002) mining Authority. Basis of the opinion Π Priority Ш Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Lack of unity of invention Reasoned statement under Rule 66.2 (a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application Certain observations on the international application VIII The applicant is hereby invited to reply to this opinion. When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension. See rule 66.2(d). How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9. Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6 If no reply is filed, the international preliminary examination report will be established on the basis of this opinion. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 08 March 2005 (08.03.200 Name and mailing address of the IPEA/US Authorized officer Mail Stop PCT, Attn: IPEA/US Commissioner for Patents Jean A Gelin P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (703) 305-4847

Facsimile No. (703) 305-3230

Form PCT/IPEA/408 (cover sheet)(July 1998)

WRITTEN OPINION PCT/US03/36083 I. Basis of the opinion 1. With regard to the elements of the international application;* the international application as originally filed the description: pages 1-15, as originally filed pages NONE _____, filed with the demand pages NONE , filed with the letter of the claims: pages 16-23 _____, as originally filed pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand , filed with the letter of pages NONE the drawings: _____, as originally filed pages 1-9 filed with the demand pages NONE pages NONE , filed with the letter of the sequence listing part of the description: pages NONE , as originally filed pages NONE , filed with the demand pages NONE , filed with the letter of 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rule23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was drawn on the basis of the sequence listing: contained in the international application in printed form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the claims, Nos. NONE
the drawings, sheets/fig NONE

This opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."

Form PCT/IPEA/408 (Box I) (July 1998)

The statement that the information recorded in computer readable form is identical to the written sequence listing

has been furnished.

The amendments have resulted in the cancellation of:

the description, pages NONE

WRITTEN OPINION

International application No. PCT/US03/36083

	tions and explanati		 					******************
	Novelty (N)		Claims	NONE				YE:
	, (,							(NO
	Inventive Step (I	S)	Claims	NONE				XE:
	i		Claims	1-68				(No
Industrial Applicability (IA)		Claims	1-68				YES	
			Claims	NONE				NO
	ATIONS AND EXP	LANATIONS	 erranga arrakanga ar		, , , , , , , , , , , , , , , , , , ,	***************************************	***************************************	
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Form PCT/IPEA/408 (Box V) (July 1998)

PCT/US03/36083

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

V. 2. Citations and Explanations:

Claims 1-68 lack novelty under PCT Article 33(2) as being anticipated by SONY INTERNATIONAL (EP 1 207 404 A1).

Regarding claim 1, SONY teaches an apparatus comprising: a repeater including a receiver and a transmitter (col. 1, lines 7-23); and a position location device for determining a location of the repeater (col. 1, lines 7-36).

Regarding claim 2, SONY teaches wherein the position location device is integrated with the repeater (col. 1, lines 7-36).

Regarding claim 3, SONY teaches wherein the position location device is coupled to the repeater (col. 1, line 36 to col. 2, line 19).

Regarding claim 4, SONY teaches wherein the position location device is coupled to the repeater by an external connection (col. 1, line 36 to col. 2, line 19).

Regarding claim 5, SONY teaches wherein the position location device is a GPS receiver (col. 1, lines 15-25).

Regarding claim 6, SONY teaches wherein the position location device is a mobile station (col. 1, lines 27-37).

Regarding claim 7, SONY teaches wherein the position location device determines the location of the repeater based on radio-location signals received by the receiver (col. 2, lines 27-35).

Regarding claim 8, SONY teaches wherein the position location device determines the location of the repeater based on radio-location signals received by the position location device (col. 2, lines 27-35).

Regarding claim 9, SONY teaches wherein the location of the repeater is used to update a base station almanac (col. 6, lines 19:45).

Regarding claim 10, SONY teaches wherein the transmitter transmits the location of the repeater (col. 4, lines 20-53).

Regarding claim 11, SONY teaches wherein the transmitter transmits the location of the repeater to an external device to update a base station almanac (col. 6, lines 19-45).

Regarding claims 12-16, SONY teaches wherein the external device is a base station, wherein the external device is connected to a base station, wherein the base station receives the location of the repeater from the repeater, wherein the base station updates a base station almanac with the location of the repeater (col. 1, line 7 to col. 2, line 35, col. 6, lines 6-45).

Regarding claim 17, SONY teaches wherein the receiver and the transmitter are also used to repeat signals (col. 7, lines 1-

Regarding claims 18, 22, 28, SONY teaches repeater comprising: a receiver including a position location device, wherein the position location device determines a location of the repeater based on radio-location signals received by the receiver; and a transmitter for transmitting the location of the repeater (col. 6, line 6 to col. 7, line 17).

Regarding claims 19, 23, SONY teaches wherein the receiver and the transmitter are also used to repeat signals (col. 7, lines 1-17).

Regarding claims 20, 24, SONY teaches wherein the transmitter transmits the location of the repeater to an external device

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

to update a base station almanac (col. 6, line 19 to col. 7, line 26).

Regarding claims 20, 25, SONY teaches wherein the external device is a base station (col. 1, lines 7-36).

Regarding claim 26, SONY teaches wherein the external device is a base station controller (col. 5, lines 25-55).

Regarding claim 27, SONY teaches wherein the transmitter transmits the location of the repeater to an external device for storage (col. 6, line 19 to col. 7, line 25).

Regarding claims 29, 61, SONY teaches repeater comprising: a receiver for receiving signals (col. 1, lines 7-23); a position location device for determining a location of the repeater based on radio-location signals received by the position location device (col. 1, line 36 to col. 2, line 19); and at least one memory device for storing the location of the repeater (col. 2, lines 27-35); a processor configured to retrieve the location of the repeater from the at least one memory device (col. 4, lines 20-53); and a transmitter for transmitting the received signals and the location of the repeater retrieved by the processor (col. 5, line 8 to col. 6, line 45).

Regarding claims 30, 31, SONY teaches wherein the location of the repeater is manually entered into the repeater, wherein the location of the repeater is entered into the repeater via another device (col. 4, lines 18 to col. 5, line 53).

Regarding claims 32, 62, SONY teaches wherein the processor retrieves the location of the repeater from the at least one rnemory device in response to a query (col. 5, lines 1-53).

Regarding claim 33, SONY teaches wherein the receiver and the transmitter are used to repeat signals (col. 7, lines 1-19).

Regarding claim 34, SONY teaches system comprising: a repeater including a position location device for determining a location of the repeater and a transmitter for transmitting the location of the repeater (col. 4, lines 17-50); and a base station for receiving the location of the repeater (col. 4, line 17 to col. 5, line 31).

Regarding claims 35, 67, 68, SONY teaches wherein the base station updates a base station almanac with the location of the repeater (col. 1, lines 7-36).

Regarding claim 36, SONY teaches wherein the base station routes the location of the repeater to another device (col. 1, line 7 to col. 2, line 53).

Regarding claim 37, SONY teaches wherein the base station queries the repeater for the location of the repeater (col. 1, lines 7-36).

Regarding claim 38, SONY teaches method for determining a location of a repeater comprising the steps of: receiving radio-location signals within the repeater (col. 1, lines 7-23); and determining the location of the repeater based on the radio-location signals received within the repeater (col. 1, line 7 to col. 2, line 35).

Regarding claim 39, SONY teaches wherein the receiving and determining steps are performed by the repeater (col. 7, lines 1-36).

Regarding claim 40, SONY teaches wherein the radio-location signals include assistance data (col. 6, lines 19-50).

Regarding claim 41, SONY teaches the step of transmitting the location of the repeater (col. 7, lines 1-53).

Regarding claim 42, SONY teaches wherein the location of the repeater is transmitted by the repeater (col. 1, lines 7-36).

Regarding claim 43, SONY teaches wherein the location of the repeater is transmitted by the repeater in response to a query (col. 7, lines 7-36).

Regarding claims 44, 63, SONY teaches wherein the location of the repeater is transmitted by the repeater during a predetermined time interval (col. 4, lines 19-57).

Regarding claims 45, 64, SONY teaches wherein the location of the repeater is transmitted by the repeater during initial initialization (col. 6, line 6 to col. 7, line 17).

Regarding claims 46, 65, SONY teaches wherein the location of the repeater is transmitted by the repeater on an automated basis (col. 1, line 7 to col. 2, line 19).

Regarding claim 47, SONY teaches wherein the location of the repeater is transmitted to a base station (col. 7, line 1-17).

Regarding claims 48, 66, SONY teaches the step of updating a base station almanac with the location of the repeater (col. 6, lines 19-46).

Regarding claim 49, SONY teaches method for determining a location of a repeater comprising the steps of: receiving radio-location signals; determining the location of the repeater based on the radio-location signals; transmitting the location of the repeater (col. 1, lines 7-36); and updating a base station almanae with the location of the repeater (col. 6, line 19 to col. 7, line 17).

Regarding claim 50, SONY teaches method for updating a location of a repeater comprising the steps of: receiving a query for the location of the repeater; determining the location of the repeater; and transmitting the location of the repeater (, col. 2, lines 7-36, col. 6, line 19 to col. 7, line 19).

Regarding claim 51, SONY teaches wherein the query is sent by a base station (col. 4, lines 20-53).

Regarding claim 52, SONY teaches wherein the location of the repeater is manually entered into the repeater (col. 3, lines 4-57).

Regarding claim 53, SONY teaches wherein the determining and transmitting steps are performed by the repeater (col. 3, lines 4-56).

Regarding claim 54, SONY teaches further comprising the step of updating a base station almanac with the location of the repeater (col. 6, lines 19-53).

Regarding claims 55, SONY teaches method for querying the location of a repeater comprising the steps of: sending a query for the location of the repeater; and receiving the location from the repeater (col. 1, lines 7-36, col. 6, line 7 to col. 7, line 17).

Regarding claims 56, 57, SONY teaches wherein the query is sent by a base station (col. 4, lines 20-53).

Regarding claims 58, 59, SONY teaches the query is based on a predetermined time interval (col. 4, lines 19-57). Regarding claim 60, SONY teaches the query is based on the deployment of a new repeater (col. 7, lines 1-17).

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient) NEW CITATIONS NONE	
NONE NEW CITATIONS	
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